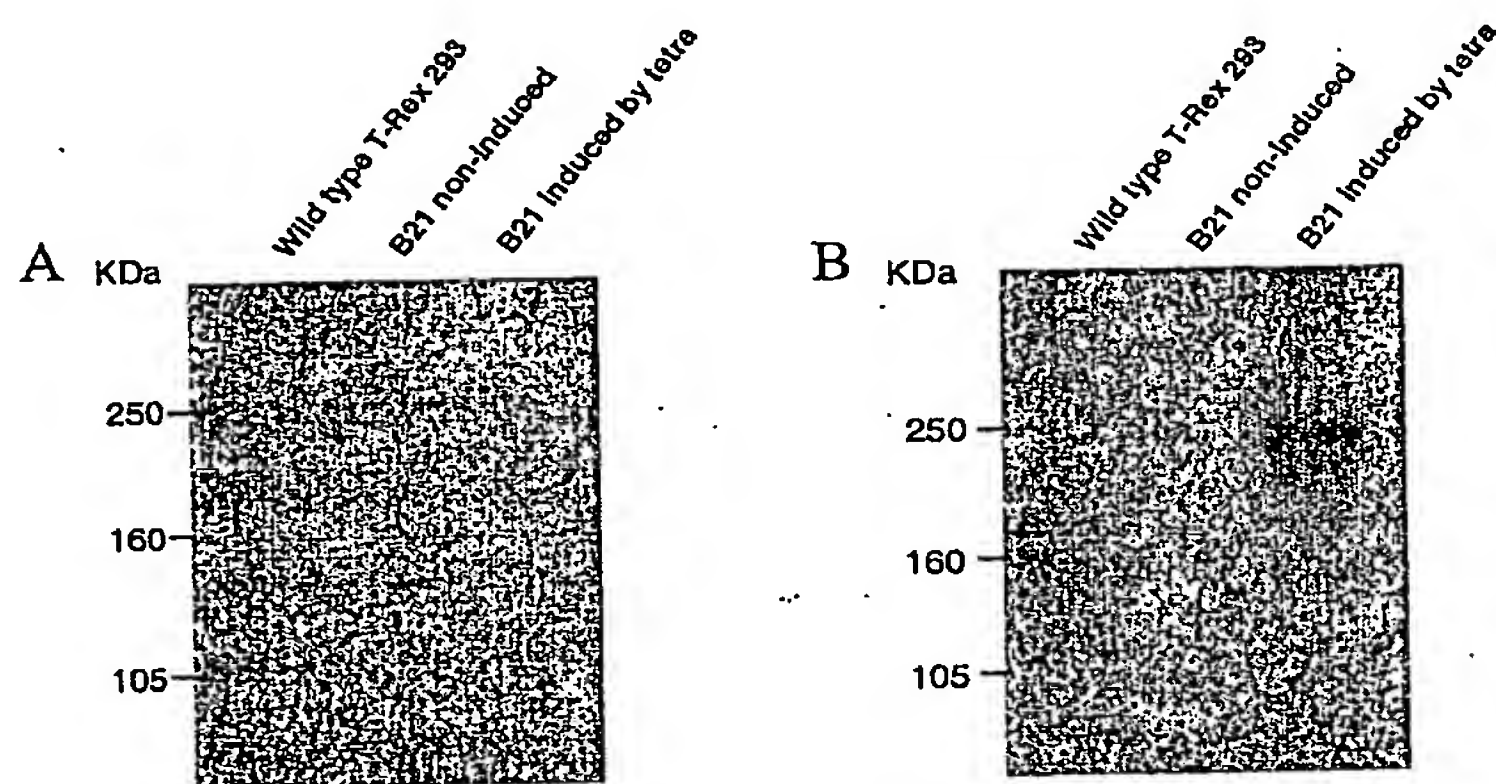


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FIGURE 1

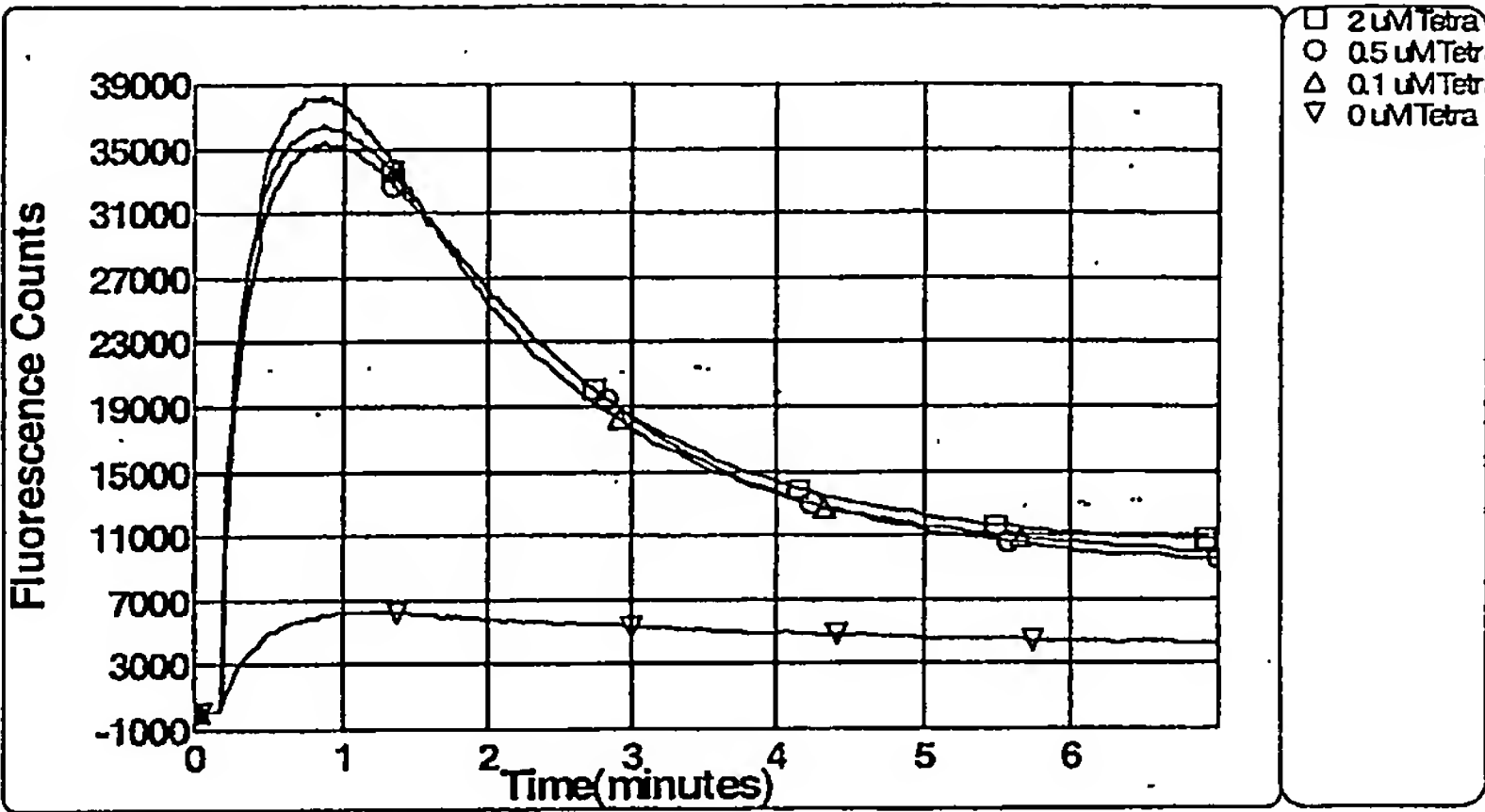
Western blot for alpha 1 I peptide-antibody (#732) in alpha 1I stable cell line.

Protein samples (20 μ g/lane) prepared from the wild type T-Rex, non-induced B21 and induced B21 cells. (A) Preimmune control rabbit serum (1:500) (B) A protein band of approximately 240 kDa was recognized by human α 1I antisera (1:500) in α 1I transfected cells (B21) induced by 0.1 μ M tetracycline.



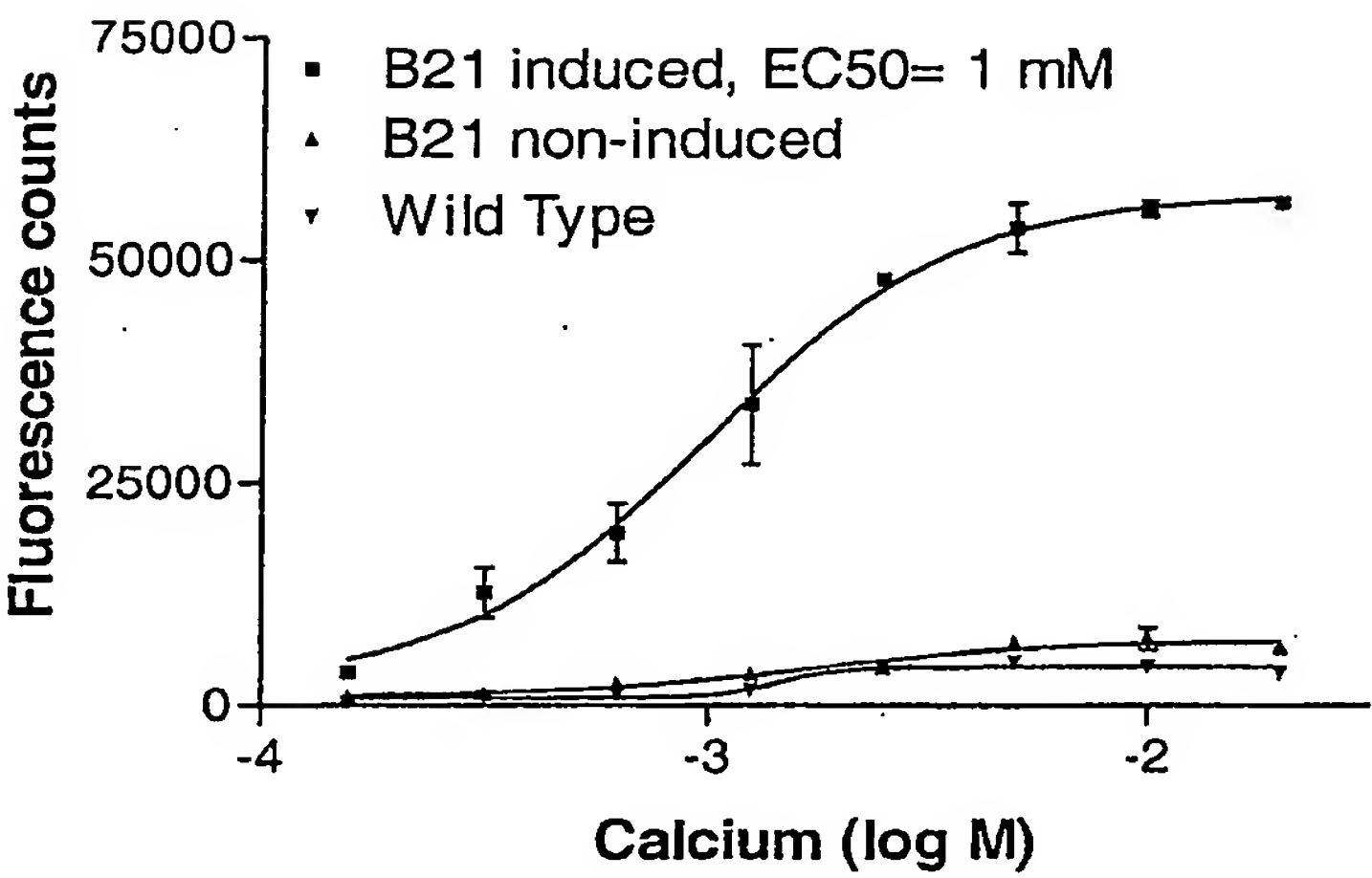
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FIGURE 2

Time course of calcium influx after addition of 5mM calcium in B21 cells



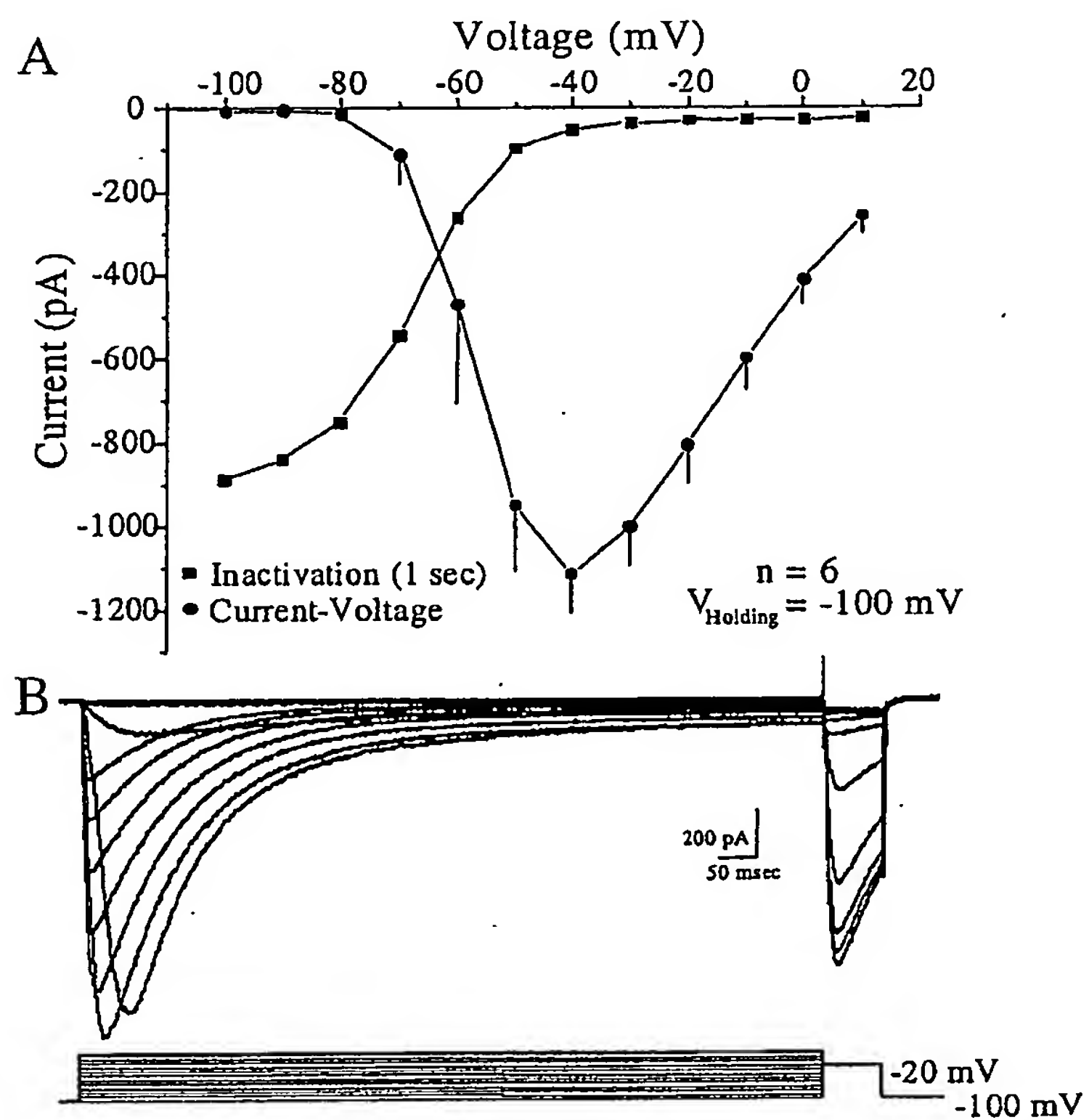
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FIGURE 3

Calcium influx in wild type cells and B21 cells



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FIGURE 4

Electrophysiological characterization of the $\alpha 1I$ channel activation and inactivation properties when expressed the T-Rex cell line.



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FIGURE 5 α 1I-1 and α 1I-2 Amino Acid Sequence Alignment

	481	560
α 1I-1	AKEPRHYQLCPQHSPLDATPHTLVQPIPATLASDPASCPCCQHEDGRRPSGLGSTDGQEGSGSGSSAGGEDEADGDGAR	
α 1I-2	AKEPRHYQLCPQHSPLDATPHTLVQPIPATLASDPASCPCCQHEDGRRPSGLGSTDGQEGSGSGSSAGGEDEADGDGAR	
	561	640
α 1I-1	SSEDGASSELGKEEEEEEQADGAVWLCGDVWRETRAKLRGIVDSKYFNRGIMMAILVNTVSMGIEHHEQPEELTNILEIC	
α 1I-2	SSEDGASSELGKEEEEEEQADGAVWLCGDVWRETRAKLRGIVDSKYFNRGIMMAILVNTVSMGIEHHEQPEELTNILEIC	
	641	720
α 1I-1	NVVFTSMFALEMILKLAAGFLFDYLRNPYNIFDSIIIVII-----SIWEIVGQADGGLSVLRTFRLLR	
α 1I-2	NVVFTSMFALEMILKLAAGFLFDYLRNPYNIFDSIIIVIIIRPPTAASYLYPGPALRDRSIWEIVGQADGGLSVLRTFRLLR	
	721	800
α 1I-1	VLKLVRFMPALRRQLVVLMTMDNVATFCMLLMLFIFIFSILGMHIFGCKFSLRTDTGDTVDRKNFDSLLWAIIVTVFQI	
α 1I-2	VLKLVRFMPALRRQLVVLMTMDNVATFCMLLMLFIFIFSILGMHIFGCKFSLRTDTGDTVDRKNFDSLLWAIIVTVFQI	

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FIGURE 6 α 1I-1 and α 1I-2 DNA Sequence Alignment

	2161		2240
α 1I-1	GGTCTGGCTGTGCGGGGATGTGTGGCGGGAGACGCGAGCCAAGCTGCGCGGCATCGTGGACAGCAAGTACTTCAACCGGG		
α 1I-2	GGTCTGGCTGTGCGGGGATGTGTGGCGGGAGACGCGAGCCAAGCTGCGCGGCATCGTGGACAGCAAGTACTTCAACCGGG		
	2241		2320
α 1I-1	GCATCATGATGGCCATCCTGGTCAACACCGTCAGCATGGGCATCGAGCACCACGAGCAGCCGGAGGAGCTGACCAACATC		
α 1I-2	GCATCATGATGGCCATCCTGGTCAACACCGTCAGCATGGGCATCGAGCACCACGAGCAGCCGGAGGAGCTGACCAACATC		
	2321		2400
α 1I-1	CTGGAGATCTGCAATGTGGTCTTCACCAGCATGTTTGCCCTGGAGATGATCCTGAAGCTGGCTGCATTTGGGCTCTTCGA		
α 1I-2	CTGGAGATCTGCAATGTGGTCTTCACCAGCATGTTTGCCCTGGAGATGATCCTGAAGCTGGCTGCATTTGGGCTCTTCGA		
	2401		2480
α 1I-1	CTACCTGCGTAACCCCTACAACATCTTCGACAGCATCATTGTTCATCATCAG-----		
α 1I-2	CTACCTGCGTAACCCCTACAACATCTTCGACAGCATCATTGTTCATCATCAGGCCTCCTACTGCTGCCTCCTACCTGTACC		
	2481		2560
α 1I-1	-----CATCTGGGAGATCGTGGGGCAGGCGGACGGTGGGCTGTCGGTGCTGCGGACCTTC		
α 1I-2	CTGGGCCTGCCCTGCGGGACCGCAGCATCTGGGAGATCGTGGGGCAGGCGGACGGTGGGCTGTCGGTGCTGCGGACCTTC		
	2561		2640
α 1I-1	CGGCTGCTGCGCGTGCTGAAACTGGTGCGCTTCATGCCTGCCCTGCGGCGCCAGCTCGTGGTGCTCATGAAGACCATGGA		
α 1I-2	CGGCTGCTGCGCGTGCTGAAACTGGTGCGCTTCATGCCTGCCCTGCGGCGCCAGCTCGTGGTGCTCATGAAGACCATGGA		